

APRIL/MAY 2025

**23USMB33 — ORGANIC FARMING AND
BIOFERTILIZER TECHNOLOGY (SEC IV)**

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What are non-renewable resources?
2. What is crop rotation?
3. What are earthworm castings?
4. Define human.
5. Define microaerophile? Give example -
6. What are root nodules?
7. What is heterocyst?
8. What is arbuscules?
9. What are the components of nitrogenase?
10. What is carrier material? Mention any two?



SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) List out advantages and disadvantages of organic farming.

Or

- (b) Explain how organic farming improve the biodiversity.

12. (a) Write about backyard garden.

Or

- (b) Explain how you will produce vermicompost.

13. (a) Write a note on *Azospirillum* as a bioferlitizer.

Or

- (b) Describe the process of nodulation.

14. (a) Comment on VAM.

Or

- (b) Give a detailed note on BGA.

15. (a) List out the precautions to be taken to store biofertilizers.

Or

- (b) What are the constraints in marketing biofertilizers?

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Recall the principles of organic farming.
17. Explain the process of composting.
18. Write a detailed note on *Rhizobium* and its significance.
19. What is micorhizae? What are their benefits?
20. Comment On quality control of bacterial biofertilizers.

